

# Claims

- [c1] 1.A preview system, for a digital camera, comprising:  
an image capture apparatus, for generating a first image signal;  
an image signal processor, for correcting the first image signal in order to generate a second image signal with gray scale characteristics; and  
a display device, for providing an image preview function according to the second image signal.
- [c2] 2.The preview system of claim 1, wherein the display device comprises a super-twisted nematic liquid crystal display (STN-LCD).
- [c3] 3.The preview system of claim 2, wherein the super-twisted nematic liquid crystal display comprises a multiple gray scale super-twisted nematic liquid crystal display.
- [c4] 4.The preview system of claim 2, wherein the super-twisted nematic liquid crystal display comprises a black and white scale super-twisted nematic liquid crystal display.

- [c5] 5.The preview system of claim 4, wherein the black and white scale super-twisted nematic liquid crystal display employs dithering technique to mimic a multiple gray scale super-twisted nematic liquid crystal display.
- [c6] 6.The preview system of claim 1, wherein the image signal processor further comprises:
- a Bayer data accumulator, for receiving the first image signal to generate a first temporary image signal;
  - a brightness scalar, for receiving the first temporary image signal to generate a second temporary signal;
  - a Gamma correction circuit, for receiving the second temporary image signal to generate a third temporary image signal; and
  - a 2D-image scalar, for receiving the third temporary image signal to generate the second image signal.